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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,489	04/30/2001	David Bach	20816/2	2352
7590 09/19/2005			EXAMINER	
Clifford H. Kraft			CHEU, CHANGHWA J	
320 Robin Hill Drive Naperville, IL 60540			ART UNIT	PAPER NUMBER
			1641	<u> </u>
			DATE MAILED: 09/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		a_				
	Application No.	Applicant(s)				
	09/845,489	BACH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jacob Cheu	1641				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by stated and the period for reply within the set or extended period for reply will, by stated and reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN 1.136(a). In no event, however, may od will apply and will expire SIX (6) M tute, cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 21	July 2005.					
2a) ☐ This action is FINAL . 2b) ☑ TI	his action is non-final.					
3) Since this application is in condition for allow						
closed in accordance with the practice unde	r <i>Ex parte Quayle</i> , 1935 C	.D. 11, 453 O.G. 213.				
Disposition of Claims	·					
4)⊠ Claim(s) <u>90-94</u> is/are pending in the applicat	Claim(s) <u>90-94</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withd	rawn from consideration.					
· _	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>90-94</u> is/are rejected.						
7) Claim(s) is/are objected to.	· · · ——					
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exami						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	· ·				
Replacement drawing sheet(s) including the corre	•					
11) The oath or declaration is objected to by the	Examiner. Note the attach	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the prapplication from the International Bure * See the attached detailed Office action for a li	ents have been received. ents have been received in riority documents have bee eau (PCT Rule 17.2(a)).	Application No en received in this National Stage				

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)

Paper No(s)/Mail Date ___

4) 🗌	Interview Summary (PTO-413)
	Paper No(s)/Mail Date

5) Notice of Informal Patent Application (PTO-152)

6) 🔲 Other: ____.

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DETAILED ACTION

Applicant's amendment filed on 7/21/2005 has been received and entered into record and considered.

The following information provided in the amendment affects the instant application:

- 1. Claims 1-89 and 95-101 are cancelled.
- 2. Claims 90-94 are under examination.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 90-94 are rejected under 35 U.S.C. 102 (e) as being anticipated by Pfost et al. (US 6485690) as evidenced by Murray et al. (US 4752115).

Pfost et al. teach a biosensor for high throughput chemical synthesis and biological assay and/or processing. Pfost et al. that the biosensor comprises -

a top outer layer containing at least one fluid port (see Figure 4 and 5);

a fluidics layer below said top outer layer containing at least one fluidics channel in fluid communication with said port (see Figure 6-10).

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Pfost et al. also teach that "any of the layers in the processor can incorporate electronic or optical elements including, for example, transistors, memory cells, capacitors, resistors, LED's, <u>fiber optics</u> "(Col. 11, line 40-45)(emphasis added).

Although Pfost et al. do not explicitly teach the details of the fiber optic structure, it is well known that the fiber optics are composed of two cladding layers and waveguide core as evidenced Murray et al. wherein Murray et al. teach that said fiber optic waveguide having a core surrounding by a cladding and a portion of said cladding being removed from said waveguide (See claims 12-13; Col. 2, line 25-35; Col. 3, line 21-30).

Pfost et al. also teach each layer can incorporating illuminating exiting source coupled with waveguide (Col. 11, line 47-50).

Pfost et al. teach using fluorescent tags placing in said fluid port when transferred by the fluid channel into reaction well (micro-cuvette) for detection from appropriate light source illuminating (Col. 1, line 35-45).

With respect to claims 91-92, Pfost et al. teach using plurality of micro-cuvettes (reaction wells)(see Figure 9, Col. 11, line 40-45) as evidenced by Murray et al. (see claim 12-13; Col. 2, line 25-35; Col. 3, line 21-30).

With respect to claim 93, the device taught by Pfost contains a bottom supporting layer below the cladding layer (See Figure 4 and Figure 5).

With respect to claim 94, the bottom supporting layer is also optically transparent to light illumination (See Figure 9, Col. 11, line 40-45).

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Response to Applicant's Arguments

Withdraw Allowable Subject Matter

3. The allowable subject matter set forth in the previous Office Action (4/19/2005) is

withdrawn due to the new art and new rejection.

Conclusion

4. No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacob Cheu whose telephone number is 571-272-0814. The examiner can normally be reached on 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Jacob Cheu Examiner Art Unit 1641

September 12, 2005

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09/14/05

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